

CLAIMS

1. A method for inhibiting freeze concentration of a substance other than water molecules contained in a hydrous material during freezing of the hydrous material, the hydrous material containing water molecules and the substance other than water molecules, wherein the method comprises a step of adding an antifreeze protein to the hydrous material.
2. The method for inhibiting the freeze concentration of a substance other than water molecules contained in a hydrous material according to claim 1, wherein the hydrous material has a pH ranging from 2.0 to 11.0 in the step of adding an antifreeze protein to the hydrous material.
3. The method for inhibiting the freeze concentration of a substance other than water molecules contained in a hydrous material according to claim 1, wherein the hydrous material has a temperature ranging from 0°C to 70°C in the step of adding an antifreeze protein to the hydrous material.
4. A method for inhibiting inactivation of a bioactive substance contained in a hydrous material during freezing of the hydrous material, the method comprising a step of adding an antifreeze protein to the hydrous material.

5. The method for inhibiting inactivation of a bioactive substance according to claim 4, wherein the hydrous material has a pH ranging from 2.0 to 11.0 in the step of adding an antifreeze protein to the hydrous material.

6. The method for inhibiting inactivation of a bioactive substance according to claim 4, wherein the hydrous material has a temperature ranging from 0°C to 70°C in the step of adding an antifreeze protein to the hydrous material.

7. A method for producing a frozen product or freeze-dried product by freezing or freeze-drying a hydrous material containing water molecules and a component other than water molecules, wherein the component other than water molecules is homogeneously dispersed in the frozen product or freeze-dried product, the method comprising a step of adding an antifreeze protein to the hydrous material.

8. The method for producing a frozen product or freeze-dried product according to claim 7, wherein the hydrous material has a pH ranging from 2.0 to 11.0 in the step of adding an antifreeze protein to the hydrous material.

9. The method for producing a frozen product or freeze-dried

product according to claim 7, wherein the hydrous material has a temperature ranging from 0°C to 70°C in the step of adding an antifreeze protein to the hydrous material.